

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
H. T. Markowitz	01/19/2010
Shangqian P. Zhang	01/19/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Medtronic, Inc.
<b>Street Address:</b>	710 Medtronic Parkway NE
<b>City:</b>	Minneapolis
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55432-5604
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12609734
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(248)641-0270
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	248-641-1600
<b>Email:</b>	pneal@hdp.com
<b>Correspondent Name:</b>	HARNESS, DICKEY & PIERCE, P.L.C.
<b>Address Line 1:</b>	P.O. BOX 828
<b>Address Line 4:</b>	BLOOMFIELD HILLS, MICHIGAN 48303
<b>ATTORNEY DOCKET NUMBER:</b>	5074D-000083
<b>NAME OF SUBMITTER:</b>	Richard W. Warner

Total Attachments: 5  
 source=Assignment#page1.tif  
 source=Assignment#page2.tif  
 source=Assignment#page3.tif

**501069292**

**PATENT  
 REEL: 023809 FRAME: 0781**

**CH \$40.00 12609734**

source=Assignment#page4.tif

source=Assignment#page5.tif

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, is made by **H. T. Markowitz**, residing at 1670 Ridgewood Lane S, Roseville, Minnesota 55113; and **Shangqian P. Zhang**, residing at 905 Hardwood Avenue, Shoreview, Minnesota 55126; (hereinafter referred to as Assignors), respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in System And Method To Evaluate Electrode Position And Spacing, set forth in a Patent application for Letters Patent of the United States, already filed on October 30, 2009 as U.S. Application No. 12/609,734 ; and

**WHEREAS**, Medtronic, Inc., a Corporation organized under and pursuant to the laws of Minnesota having its principal place of business at 710 Medtronic Parkway NE, Minneapolis, Minnesota 55432-5604 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as

the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

HARNESS, DICKEY & PIERCE, P.L.C.

All practitioners at Customer Number 27572

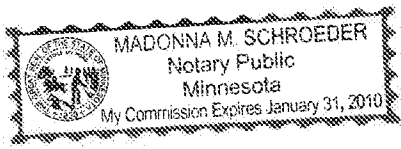
AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

H. T. Markowitz  
H. T. Markowitz

Date: 19 JAN 2010

United States of America )  
State of Minnesota ) ss.:  
County of Kanabec )

On this 19th day of January, 2010, before me personally came H. T. Markowitz, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



M. Schroeder  
Notary Public

*Shangqian P. Zhang*

Shangqian P. Zhang

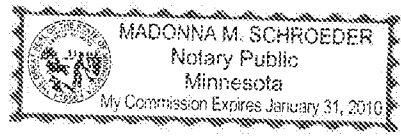
Date: 01/19/2010

United States of America )  
State of Minnesota ) ss.:  
County of Lambert )

On this 19th day of January, 2010, before me personally came Shangqian P. Zhang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

*M. Schroeder*

Notary Public



15273855.1